

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-36 (Cancelled)

Claim 37 (Currently amended): A biological cell processing system, comprising:

- i. a supply module having a fluid distribution module and a plurality of supply containers, each configured to store a respective process chemical;
- ii. a cell module;
- iii. a processing module;
- iv. a control module;
- v. a fluid distribution module comprising: a plurality of ports connectable to the supply module, the cell module, and the processing module;

a plurality of conduits for transferring fluid from one port to another port of the plurality of ports; and ~~connecting the supply module to the processing module, and the cell module to the processing module;~~

[[vi.]] a plurality of valves, each valve of the plurality of valves associated with a respective port, [[all]] adapted to the control module, and individually adapted to either the supply module, the cell module or the processing module, the operation of the valves being regulatable by the control module; and

vi. [[vii.]] a plurality of sensors all adapted to the control module and individually adapted to either the supply module, the processing module or the cell module, the system being closed to environmental contaminants and providing for sterile

~~processing of the biological cells, the supply module sensor comprising a weight sensor for providing the weight of each process chemical to the control module; wherein the control module confirms a correct amount of each process chemical has been transferred by measuring change of weight of the process chemicals stored in the supply module.~~

Claim 38 (Previously Presented): The system of claim 37, wherein the sensors further include pressure detection devices, optical detection devices, mass flow devices, temperature detection devices, volume determination devices or volume detection devices.

Claim 39 (Previously Presented): The system of claim 37, wherein each of the supply containers stores different process chemicals.

Claim 40 (Previously Presented): The system of claim 39, wherein the process chemicals are selected from the group consisting of: citric acid, sodium phosphate, sodium chloride, water, polyethylene glycol, saline, isotonic buffers, glycan modifying enzymes, and glycan modifying enzyme buffers.

Claim 41 (Previously Presented): The system of claim 39, wherein the process chemicals are sterile.

Claim 42 (Previously Presented): The system of claim 39, further comprising a filter positioned between the supply module and the processing module, the filter having a median pore diameter of about 0.2 microns.

Claim 43 (Previously Presented): The system of claim 37, further comprising a leukocyte depletion filter positioned between the cell module and the processing module.

Claim 44 (Previously Presented): The system of claim 37, wherein the processing module further comprises a centrifuge system.

Claim 45 (Previously Presented): The system of claim 37, wherein the processing module further comprises a heat transfer system.

Claim 46 (Previously Presented): The system of claim 37, wherein the processing module further comprises a processing chamber.

Claim 47 (Previously Presented): The system of claim 46, wherein the processing module further comprises a variable volume processing chamber.

Claim 48 (Previously Presented): The system of claim 47, wherein the processing module further comprises an expressor system.

Claim 49 (Previously Presented): The system of claim 37, further comprising an air module.

Claim 50 (Previously Presented): The system of claim 49, wherein the air module includes a filter having a median pore diameter of about 0.2 microns.

Claim 51 (Previously Presented): The system of claim 37, further comprising a waste module.

Claim 52 (Previously Presented): The system of claim 37, wherein the fluid distribution module further comprises a plurality of pumps adapted to the control module and the supply containers.

Claim 53 (Currently amended): A biological cell processing system, comprising:

- i. a supply module having a fluid distribution module and a plurality of supply containers, each configured to store a respective process chemical;
- ii. a cell module having blood cells therein;
- iii. a processing module;
- iv. a control module;
- v. a fluid distribution module comprising: a plurality of ports connectable to the supply module, the cell module, and the processing module;

a plurality of conduits for transferring fluid from one port to another port of the plurality of ports; and ~~connecting the supply module to the processing module, and the cell module to the processing module;~~

[[vi.]] a plurality of valves, each valve of the plurality of valves associated with a respective port, [[all]] adapted to the control module, and individually adapted to either the supply module, the cell module or the processing module, the operation of the valves being regulatable by the control module;

vi. [[vii.]] a plurality of sensors all adapted to the control module and individually adapted to either the supply module, the processing module or the cell module, the system being closed to environmental contaminants and providing for sterile processing of the biological cells, ~~the supply module sensor comprising a weight sensor for providing the weight of each process chemical to the control module;~~

~~wherein the control module confirms a correct amount of each process chemical has been transferred by measuring change of weight of the process chemicals stored in the supply module.~~

Claim 54 (Previously Presented): The system of claim 53, wherein the blood cells are erythrocytes.

Claim 55 (Previously Presented): The system of claim 54, wherein the blood cells have genotypes A, B or AB.

Claim 56 (New): The system of claim 37, wherein the fluid distribution module comprises a pump for transferring fluid through the fluid distribution module.

Claim 57 (New): The system of claim 37, wherein the plurality of conduits comprises a single use disposable device for transferring fluid from one port to another port of the plurality of ports.

Claim 58 (New): The system of claim 37, wherein the plurality of sensors comprises a weight sensor for providing the weight of each process chemical to the control module, wherein the control module confirms a correct amount of each process chemical has been transferred by measuring change of weight of the process chemicals stored in the supply module.

Claim 59 (New): The system of claim 53, wherein the fluid distribution module comprises a pump for transferring fluid through the fluid distribution module.

Claim 60 (New): The system of claim 53, wherein the plurality of conduits comprises a single use disposable device for transferring fluid from one port to another port of the plurality of ports.

Claim 61 (New): The system of claim 53, wherein the plurality of sensors comprises a weight sensor for providing the weight of each process chemical to the control module, wherein the control module confirms a correct amount of each process chemical has been transferred by measuring change of weight of the process chemicals stored in the supply module.